

# TRAINING & SIMULATION

INDUSTRY SYMPOSIUM



# PM ITTS Organization Chart

### **Mission**

Manage the acquisition of optimized Instrumentation, Target, Threat & Foreign System products and services in support of U.S. Army, Department of Defense, Government, Industrial and International Customers and execute non-traditional missions as assigned or directed by the PEO.

### **Vision**

To be recognized as the customer-preferred source for Instrumentation, Target, Threat and foreign System solutions.

## COL Mike Zarbo Project Manager

Jerry Sirmans
Deputy PM

Instrumentation Management Office (Orlando, FL)

Russ Longenbach
Director



<u>Targets</u> <u>Management Office</u> (Huntsville, AL)

> Al Brown Director



Threat Systems
Management Office
(Huntsville, AL)

Tim Bishop
Director



### <u>PMO</u> (Orlando, FL)

### **Administrative Asst**

Vacant Beth Hinds

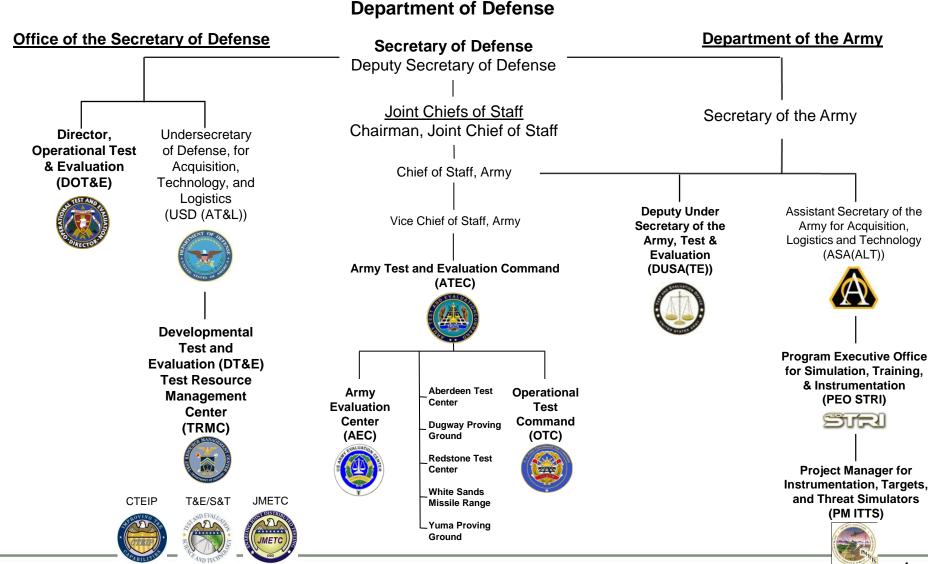
### **Technical Team**

**Tim Vaught**, Sr. APM Cisca Vuong, Chief Engineer Sharmila Vaswani, IAM

### **Business Team**

Leeza Jordan, Bus Mgr Li McCombs, Proj Mgmt Spec Mary Jo Hill, Mgmt Analyst Rose Phillips, Program Analyst Maritza Maloney, Budget Analyst Jo Watson, Budget Analyst Sara Creely, Proj Coordinator 2 Cindy Brandl, Proj Coordinator

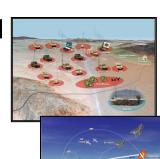
# PM ITTS Primary Support The Test and Evaluation Community



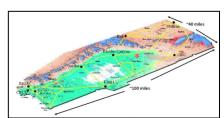
# Annual Highlights

## Significant Events

- Integrated Threat Force (ITF) Increment 2 Milestone B and successful demonstration events
- Japanese Chu-SAM PMR in Tokyo
- Range Radar Replacement Program (RRRP), Velocity Radar (VR) Milestone C
- Range Radar Replacement Program (RRRP) Milestone B
- Air Defense Artillery (ADA) Targets and Aerial Weapons Scoring System (AWSS) ACAT III DPEO reviews
- Transitioned Digital Network Migration (DNM) and Common Range Integrated Instrumentation System (CRIIS) Rapid Prototyping Initiative (RPI) to White Sands Missile Range
- Operational Test Tactical Engagement System Comms Upgrade (OT-TES CU) Closeout







# Annual Highlights (Cont.)

## Contract Awards

- Multi-spectral Sea and Land Target Simulator (MSALTS)
- Surface to Air Missiles and Rocket Propelled Grenades (SAM & RPG)
- Range Radar Replacement Program (RRRP), Velocity Radar (VR)
- Objective Helicopter Icing Spray System (OHISS)
- Aerial Target Flight Services (ATFS)

## New Efforts

- Advanced Range Tracking and Imaging System (ARTIS)
- Warrior Injury Assessment Manikin (WIAMan)
- New T&E/S&T Electronic Warfare (EW) Test
   Technology Area







# Annual Highlights (Cont.)

## Conferences Supported

- PEO STRI Industry Day, Orlando, FL (7 Apr)
- Army Aviation Association of America (AAAA), Fort Worth TX (14-17 Apr)
- International Training and Education Conference (ITEC), Germany (10-12 May)
- Test Week, Huntsville, AL (14-17 Jun)
- Military Operations Research Society Symposium (MORSS), Monterey, CA (20-23 Jun)
- Directed Energy Professional Society (DEPS) International Test and Evaluation Association (ITEA), Albuquerque, New Mexico (2-4 Aug)
- National Guard Association of the United States (NGAUS), Milwaukee, WI (26-29 Aug)
- International Test and Evaluation Association (ITEA) Symposium, Orlando, FL (12-15 Sep)
- Test and Evaluation/Science and Technology (T&E/S&T) Industry/Academia Days, Atlanta, GA (18-20 Oct)
- National Defense Industry Association (NDIA), 49<sup>th</sup> Annual Targets, UAVs, and Range Operations Symposium & Exhibition, Fort Walton Beach, FL (26 Oct)



# Annual Highlights (Cont.)

## ITTS in the News

- Finley, R., Gilliland, R., & McFarlin, S. (2011, Aug). TMO: The STRI family's long lost cousin. *Inside STRI*,
   Volume XI, Issue VIII, p. 8.
- Gilliland, R. (2011, Jun). TMO helps wounded warrior build a new life. *Inside STRI*, Volume XI, Issue VI, p. 9.
- Gregory, R. (2011, May). PEO STRI helps save a part of U.S. history. *Inside STRI*, Volume XI, Issue V, p. 8.
- Jeffers, M. (2011, Jan). Two PEO STRI teams win Army Modeling and Simulation Awards. Inside STRI,
   Volume XI, Issue I, p. 5.
- McCullough, K. (2011, Feb). ITTS' counter-threat program named team of the 1<sup>st</sup> quarter. *Inside STRI*,
   Volume XI, Issue II, p. 7.
- McCullough, K. (2011, Apr). PM ITTS conducts Integrated Threat Force demo. *Inside STRI*, Volume XI, Issue IV, p. 4, 11.
- McCullough, K. (2011, May). Twister takes everything, but hope and help. *Inside STRI*, Volume XI, Issue V, p. 9.
- Orozco, J. & Mathias, D. (2011, Feb). PM ITTS transitions enterprise network to White Sands Missile Range and exceeds Army goals. *Inside STRI*, Volume XI, Issue II, p. 4.
- Spinks, W. & Wood, J. (2011, Aug). PM ITTS supports the Army's network strategy. *Inside STRI*, Volume XI, Issue VIII, p. 3, 10.
- Spinks, W., Wood, J. & Brown, C. (2011, Oct-Dec). Threat Test: Realistic electronic warfare and computer network operations environment supports Network Integration Evaluation. *Army AL&T*, 18-21.
- Wright, D. (2011, July). Objective Helicopter Icing Spray System project awards prime contract. *Inside STRI*,
   Volume XI, Issue VII, p. 8.

## **Priorities for the Future**

## Better Buying Power Initiatives

- Target Affordability and Control Cost Growth
- Incentivize Productivity and Innovation
- Promote Real Competition
- Improve Tradecraft in Services Acquisition
- Reduce Non-Productive Processes and Bureaucracy

KOV-37 Secure Communications Processor

## Test Synchronization

- Network Integration Evaluation (NIE) Support
  - Providing outstanding threat systems and services in support of the ongoing Army NIE events.
  - Supporting next year's Warfighter Information Network Tactical (WIN-T) test event with ADMAS KOV-37s.
  - Purchasing Land Mobile Radios for White Sands Missile Range (WSMR) to be used at NIE.

## Priorities for the Future (Cont.)

Cyber Testing - Promote the cyber mission of TSMO and creating strategic partnership with the Cyber Community.

### **Key Leader Briefings**

- Mr. Grimm, DUSA-TE (10 Jan, 5 Apr)
- Mr. Reyenga, DPEO STRI (20 Jan)
- Dr. Blake, PEO STRI (22 Mar)
- MG Justice, CG ARDEC (24 Mar)
- Dr. Tanebaum, Director, ARL/SLAD (30 Mar)
- MG Dellarocco, CG ATEC (20 Apr)
- Ms. Shyu, Principal Deputy ASA(ALT) (26 May)
- Mr. Daly, Deputy Director Land Warfare, DOT&E (1 Jun)
- Mr. Kreider, DPEO Integration (2 Jun)
- MG Dellarocco, CG ATEC (13 Jun)
- Mr. Simmons, Technical Director, ATEC (15 Jun)
- Mr. Duma, Principal Deputy Director, DOT&E (21 Jun)
- BG Zwack, G3, ARCYBER (17 Nov)
- Mr. Greer, Director DT&E and TRMC (17 Nov)

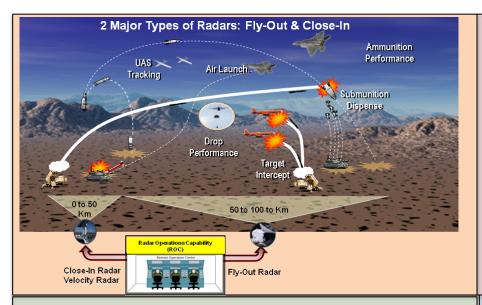




### **Supported Events**

- TALISMAN SABER (TS11) Joint exercises
- Augmentation with ARCYBER/1<sup>st</sup> IO CMD for Network Integration Evaluation (NIE) 11.2 test Jun 2011
- Operational T&E within the next 12 months for:
  - NIE 12.2 Confirmed Warfighter Information Network-Tactical (WIN-T) and Joint Tactical Radio System (JTRS) Handheld, Manpack and Small Form Fits (HMS) Manpack (MP)
  - Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS),
  - GREY EAGLE
  - Virtual Interactive Processing System (VIPS)
  - Global Combat Support System Army (GCSS-A)
  - Apache Block III (AB3)
  - Joint Mission Environment Test Capability (JMETC)
- ARL/SLAD Training on NETT
- TSMO is on the source selection team for the DARPA National Cyber Range (NCR) and DARPA is coordinating with USCYBER and TSMO for the hosting of the NCR at TSMO
- Team Training at BlackHat/DEFCON and for Information Systems Security Management Professional certification

## Range Radar Replacement Program (RRRP)



### **Highlights**

### Last 6 Months:

- Velocity Radar (VR) Delivery Orders issued (28 Mar 11, 17 Apr 11, 12 May 11)
- Post award conference with Weibel (4 May 11)
- Pre-Solicitation Conference (5 May 11)
- One-on-One meetings with Industry (5-6 May 11)
- Milestone B Decision Briefing (26 May 11)
- SRB (10 Jun 11)
- RFP released (23 Jun 11)
- RFP Closed (9 Aug 11)
- Source Selection Process (began 10 Aug 11)

### **Next 6 Months:**

- Awaiting delivery of initial VR procurement (beginning 2ndQTR FY12)
- Source Selection Process continues

### **Project Description**

This program plans to replace obsolete tracking radars at ATC, RTC, WSTC, and YTC with modern digital instrumentation radars. With increased sensitivity, power, and accuracy, the new mobile radars accomplish the program goals of:

- Meeting current and emerging test requirements.
- Reducing the total number of system required for range coverage.
- · Reducing manpower and maintenance requirements.
- Creating a mobile radar fleet shared by the test centers.

### **Current ACAT:**

ACAT III

### **Current Milestone:**

• Milestone B (Approved 26 May 11)

### **Requirements Documentation:**

•TCRD approved by Mr. Mike Etzinger, Executive Director DTC, on 8 Jun 09

### **Customer/User:**

- Customer: Gary Hettchen (ATEC)
- Users:
  - ATC
  - RTC
  - WSTC
  - YTC



## **Description/Summary of Program Requirements**

- Replace tracking radars at Aberdeen Test Center (ATC), Redstone Test Center (RTC), Yuma Test Center (YTC), and White Sands Test Center (WSTC).
- Increased sensitivity, power, accuracy, and data to meet current and future test needs. Plans to reduce total number of systems required for coverage, manpower, and maintenance during tests by providing remote controlled, mobile, and reliable systems.
- Currently divided into two performance zones:
  - Fly-out currently fulfilled by the FPS-16.
  - Close-in currently fulfilled by various X-Band pulse Doppler radars.

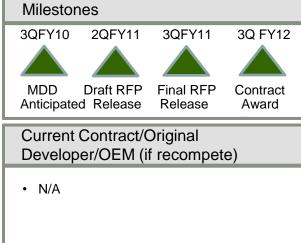
Period of Performance

Acquisition Strategy		
Full and Open Competition		
Points of Contact		

Phone: 407-384-5413

Email: Wesley.Whisner@us.army.mil

• FY12-FY22	
Funding	
<ul> <li>Anticipated funding:</li> <li>\$104M RDT&amp;E</li> <li>\$75M to \$200M OPA</li> </ul>	





# Test and Evaluation/Science and Technology (T&E/S&T)



### **Highlights**

### Last 6 Months:

- CCA awarded 20 FY11 New Starts; Released FY12 BAA
- Hosted T&E/S&T Mid-Year Program Execution Review
- DET transitioned three projects: DOMG, SHEF and RSTP
- EWT stood-up and began managing eight projects
- Assist with T&E/S&T Industry-Academia Days in Oct

### **Next 6 Months:**

- DET transition four projects: PRST, APOS, ERSA, and TIPA
- Transfer five MST contracts to EWT

### **Project Description**

- OSD Test Resource Management Center Test and Evaluation / Science and Technology (TRMC T&E/S&T) funded effort
- Matures high risk, high payoff technology enablers using 6.3 RDT&E funding to meet T&E requirements of future DOD weapon systems
- Provides expeditious PEO STRI acquisition and contract execution services to multiple S&T Test Technology Area (TTA) Executing Agents (EAs) through the issuance of Broad Agency Announcements (BAAs) and award and management of ensuing contracts

**Current ACAT:** Support Mission

### **Requirements Documentation**

MOU between TRMC & PEO STRI - in final staffing

### **Test Technology Area (TTA) Executing Agents**

- Advanced Instrumentation Systems Test (AIST) NUWC Newport, RI
- Advanced Propulsion Test Technology (APTT) Arnold AFB, TN
- Cyber Test Technology (CTT) NAVAIR Pt. Mugu, CA
- Directed Energy Test (DET) PEO STRI, Orlando, FL
- Electronic Warfare Test (EWT) PEO STRI, Orlando, FL
- Net-centric Systems Test (NST) NAVAIR Pt. Mugu, CA
- Spectrum Efficient Technology (SET) Edwards AFB, CA
- Unmanned and Autonomous Systems Test (UAST) NAVAIR Pax River, MD

**Users:** MRTFBs, DoD test ranges, laboratories and facilities



# Test and Evaluation/Science and Technology (T&E/S&T)

# Test Resource Management Center (TRMC) Test & Evaluation/Science & Technology (T&E/S&T) Program

<u>Test Instrumentation S&T (8 separate Test Technology Areas):</u>

- DOD TRMC S&T funding.
- S&T applied technology (Budget Activity 3) projects mature development of test technologies that directly support weapons, sensors, and network systems T&E at DOD test ranges/facilities.
- Army Single Face to Industry (ASFI) and FEDBIZOPPS Broad Agency Announcements (BAA) (multi-year) under eight distinct test technology areas.

### **Acquisition Strategy**

- Two-phased BAA process: 1) White Paper submission; 2) RFP invitation
- Awards based on prioritized benefit to needs and available funds

S&T / APPLIED TECHNOLOGY

### Period of Performance

- Typical total project length: 3-4 years
- Projects phased as base + options to advance technology readiness level typically from 3 to 6, usually in 3 phases

### Funding

- \$80M/yr funding supports issuance of new contracts across 8 technology areas and provides incremental funding to continue prior years' awarded contracts
- · Expected 20-25 awards annually

# Milestones Jan Mar Jun-Jul Sep-Oct BAA White Proposal Contract Issuance Papers Due Decision Award

## Current Contract/Original Developer/OEM (if recompete)

- 8 Separate multi-year BAAs
- · Annually updated with new topics
- Government/Academia/Industry solicited

### Point of Contact

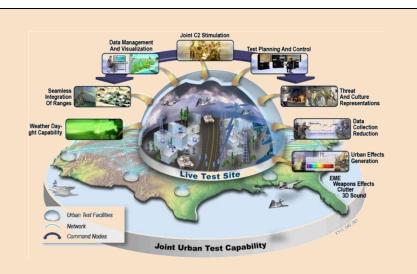
Name: Glenda Torres

Organization: PEO STRI Contracts

Phone: 407-384-4413

Email: Glenda.Torres@us.army.mil

# Joint Urban Test Capability (JUTC)



## **Highlights**

Last 6 Months: May 11 – Oct 11

- CTEIP Mid-Year review May 11
- Test Capability Requirements Document (TCRD) revision May 11 – present
- Project Management Review 3 Aug 11

Next 6 Months: Oct 11 – Apr 12

- TCRD Approval
- Project Management Plan
- Acquisition Strategy and Affordability Decision Review

## **Project Description**

The Joint Urban Test Capability (JUTC) is a Central Test and Evaluation Investment Program (CTEIP) effort that will represent an urban environment and provide the test infrastructure necessary to support Developmental and Operational Testing.

JUTC will provide technical solutions that create new urban environments or augment existing capabilities with effects generators, realistic threats and advanced data collection systems.

**Current ACAT: Support Mission** 

**Current Milestone** 

Approaching Acquisition Strategy and Affordability Decision Review (Milestone A equivalent) – date TBD

### **Requirements Documentation**

TCRD submitted 24 Jan 11 – being revised to incorporate Navy requirements

## Customer/User

Customer: TRMC

End User: WSMR, China Lake, Patuxent River

Expected early End User customers: Network Integration Evaluation, Joint Tactical Radio System, Next Generation Jammer, Joint Allied Threat Awareness System, Joint Air-To-Ground Missile, Ground

Combat Vehicle



## **Description/Summary of Program Requirements**

**Funding** 

The JUTC is a Central Test and Evaluation Investment Program effort that will represent an urban environment and provide the test infrastructure necessary to support Developmental and Operational Testing. JUTC will provide technical solutions that create new urban environments or augment existing capabilities with effects generators, threat representation, data collection systems and test planning and control.

### Prime Mission Products will likely include:

- Live Urban Environment with Augmented Effects
- Virtual/Constructive Urban Environment
- Data Collection Systems
- Test Planning and Control
- Net-centric Connectivity

Acquisition Strategy	Period of Performance	Milestones
Acquisition Strategy under development.	Period of Performance not yet defined.	TBD
		TCRD Approval

Name: Michael Landers Organization: PM ITTS, IMO Phone: 407-384-3530 Email: Michael.Landers@us.army.mil

**Technical Point of Contact** 

 Funding profile not yet defined - dependent upon finalized requirements. Current Contract/Original
Developer/OEM (if recompete)

• N/A



# Aerial Target System IDIQ Contract



## **Highlights**

### Last 6 Months:

- Completed documentation/Signatures
- Pre Solicitation Synopsis: W31P4Q-12-R-0007

### Next 6 Months:

- Draft RFP 18 Nov
- Final RFP 16 Dec
- Source Selection 2 May

### **Contract Description**

- Competitive award to ~5 vendors
- Subtasks competed among the vendors
- ~49M ceiling Base year with 4 option years
- Support for future aerial requirements

### **Requirements Documentation**

Qualitative Material Requirement 13 Nov 69
Capability Production Document 6 Jun 07

### Customer/Use

PATRIOT, HAWK, ChuSAM, USAF, USN, FMS, Lower Tier, MEADS



## Aerial Targets IDIQ



## **Description/Summary of Program Requirements**

Multi vendor award.

Phone: 256-876-5950

Email: Pamela.Parker5@us.army.mil

• To acquire and support future aerial targets, engineering services, launchers, ground support equipment, repair & spare parts and logistical support.

### Period of Performance **Acquisition Strategy** Milestones 1QFY12 3QFY12 · Full and Open Competition · Base year plus four option years Draft RFP Contract Release Award Current Contract/Original Point of Contact **Funding** Developer/OEM (if recompete) Name: Pam Parker • Approximate \$50M dollar effort over 5 None Organization: PM ITTS, TMO years

RFI posted Fed Bus Ops 3 Aug 2010

· See POC for additional info

W31P4Q-10-R-0321, closed 3 Sep 2010

## Red Force Injection Jammer (RFIJ)



## **Description/Summary of Program Requirements**

- Production contract for the Threat Signals Injection Jammer (TSIJ) program.
- Generates a series of new threat Electronic Warfare (EW) hardware simulators that produce a wide array
  of communications jamming waveforms, that encompass a large Radio Frequency (RF) range; and,
  acquires these systems using a competitively bid, Firm Fixed Price (FFP) type contract.
- Advances current simulator baseline with new capabilities, at the indicated quantity levels:
  - Two-channel man-portable COMS threat signal injection jamming unit (220 units)
  - Five-channel vehicle borne next-generation signal injection jamming device with both COMS and GPS jamming capabilities (290 units)
  - Low-power, Unmanned, All-Weather Control Signal Transmitter for remote locations and capable of open air COMS and GPS jamming transmissions (40 units)

Acquisition Strategy	Period of Performance	Milestones
Production Contract	36 months – base year with 2 options	2QFY12 2QFY13  RFP Anticipated Release Contract Award
Point of Contact  Name: Jean Borowski Organization: PEO STRI Contracts Phone: 407-380-4261 Email: Jean.Borowski@us.army.mil	Funding  • \$25M	Current Contract/Original Developer/OEM (if recompete)  • Scientific Research Corporation (SRC) • Technical Data Package will be available 2QFY12



# Threat Computer Network Operation (TCNO) Team





## Highlights

### Last 6 months:

- Supported: NIE, GCSS, JLENS, Grey Eagle, Talisman Saber, FBI/NCIS
- Briefed: CG ATEC, TD ATEC, DUSA-TE, CG RDECOM, AMC G2
- Training: Blackhat/DEFCON, NSA RTBC, ISSMP, Army PTT, SANS
- Expanded by 2 DA Civilians
- Coordinated MOA with 1st IO

### **Next 6 months:**

- •Test Support NIE, GCSS, GREY EAGLE, JLENS, NIE, VIPS, LMP
- •Training Support Cyber Flag, JMETC, PACE
- Attend Immunity Security conference
- Finalize Red Team/STRATCOM Certification
- •1st IO MOA
- Add additional 2 DA Civilians

## **Project Description**

- Threat CNO Team is a POM funded program which satisfies Army and Tri-service requirements for a threat representative Threat CNO capability for OT as detailed in DOT&E guidance.
- CNO Team personnel maintain the extensive necessary training, certifications, and clearances to execute threat CNO on open and closed Army networks
- Provide realistic intelligence based real-world adversarial threat CNE & CNA
- Primary tool is NETT

**Current ACAT: Non-ACAT program** 

### **Requirements Documents**

 Threat Capabilities Requirements Document (TCRD) signed by ATEC 30 Sep 2008

## **Customer/User/Tests Supported**

GFEBS GCSS
JLENS WIN-T
Terminal Fury IO Range
DIMHRS NIE
JMETC Cyber Flag
DCGS-A DCDS/SMDC

# Threat Computer Network Operation (TCNO) Team



## **Description/Summary of Program Requirements**

- A Threat Computer Network Operations Team (TCNOT) to support Developmental and Operational TCNO Test and Evaluation (T&E) and training events and administrative staff for the development, maintenance, and support of the Information Operations Range (IOR) and the Threat Target Network (TTN) referred to as the Threat Network Operations Center (TNOC) Team.
- Satisfies Army and Tri-service requirements for a threat representative Computer Network Operation (CNO) capability.
- CNO team, comprised of U.S. personnel required to maintain extensive and unique training, certificates, and clearances to execute threat CNO on open and closed Army networks.
- Provides realistic intelligence-based real-world adversarial threat Computer Network Exploitation (CNE), Computer Network Defense (CND), and Computer Network Attack (CNA).
- Primary tool is the Network Exploitation Test Tool (NETT).

Acquisition Strategy	Period of Performance	Milestones
Competitive 8(a) set-aside	• Jan 2013 – Jan 2018	2QFY12 2QFY13  RFP Anticipated Contract Award
Point of Contact	Funding	Current Contract/Original Developer/OEM (if recompete)
Name: Jean Borowski Organization: PEO STRI Contracts Phone: 407-380-4261 Email: Jean.Borowski@us.army.mil	• \$10M	Millennium Corporation     Requirement Package will be available     2QFY12 for recompete